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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/194,567 04/07/99 LEIJON

M 705/71503280

WATSON COLE GRINDLE WATSON
1400 K STREET NW
10TH FLOOR
WASHINGTON DC 20005-2477

MMC2/0705

EXAMINER

ENAD, E

ART UNIT

PAPER NUMBER

2834

DATE MAILED:

07/05/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

09/194,567

Applicant(s)

Leijon et al.

Examiner

Enad, Elvin

Group Art Unit

2834



☒ Responsive to communication(s) filed on Apr 28, 2000

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 1-19 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 1-19 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☒ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) _____.

☒ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. PCT/SE97/00899, filed on May 27, 1997.

Claim Rejections - 35 USC § 112

2. Claim 3 is rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In line 5, reference to the "resilient material" is lacking proper antecedent basis.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1 and 6-9 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Elton et al. (USP 5,036,165) in view of Gasparini et al. (USP 5,729,068).

Elton et al. disclose the claimed invention except for a teaching of having the end winding layers crossing each other. Elton et al. disclose that it is known to use an electrical cable provided

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with an internal grading layer of semi-conducting pyrolyzed glass fiber layer in electrical contact with a cable conductor. In an alternate embodiment, Elton et al. teach having an electrical cable provided with an exterior layer of internal grading layer of semi-conducting pyrolyzed glass fiber layer in contact with an exterior cable insulator having a predetermined reference potential. Furthermore, Elton et al. teach that it is known to provide a semiconducting layer in the insulation of a conductor and to connect that layer to a fixed potential in order to provide an equipotential surface on the conductor preventing corona discharge around the conductors.

Gasparini et al. teach having an electric machine with stator end windings crossing each other. Gasparini et al. further teach that each stator end windings is surrounded by a deformable insulating material which is pervious to the impregnating resin and held by means of a shrinkable fabric. In column 3, lines 1-8, Gasparini et al. state that the shrinking fabric can be formed in various ways such as strip which can be repeatedly wound around or made of a hose section (tube).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have used the winding arrangement as taught by Gasparini et al. to the winding cable as disclosed by Elton et al. since such a modification according to column 1, lines 3-68 of Gasparini et al. would provide an arrangement that is simple and economical to produce. Moreover, according to Gasparini et al. the insulating shrinking fabric can be used easily for a wide variety of winding end shapes since it is deformable.

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5. Claims 2-5 and 10-19 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Elton et al. (USP 5,036,165) in view of Gasparini et al. (USP 5,729,068) and further in view of Cooper et al. (USP 4,618,795).

Elton et al. in view of Gasparini et al. disclose the claimed invention except for a teaching of having positioning means and resilient means for preventing contact between the winding layers.

Cooper et al. teach that is known to provide braces, strain blocks, fillers and/or rubber between two stator end coils for reasons such as providing cushion, reducing stress between the coils and/or reducing friction to prevent rapid wear .

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have provided means for securing the winding layers as well as cushion between coils as taught by Cooper et al. to the electrical machine of Elton et al. since such a modification according to column 2, lines 1-34 of Cooper et al. would provide coil support, reduce stress and wear between the coil interfaces.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

7. Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Elvin Enad whose telephone number is (703) 308-7619.

8. Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 308-0956. The fax phone number for this Group is (703) 305-3431 (32).



Elvin Enad
Primary Examiner
Art Unit 2834
06.28.2000